

Construction Material

General

Soils are rated as sources for roadfill, topsoil, sand, and gravel. Suitability ratings of good, fair, or poor are given for soils used as a source of roadfill and topsoil. Ratings of probable and improbable are given for sand and gravel. A rating of probable means that on the basis of the available evidence, the source material is likely to be in or below the soil. A rating of improbable means that the source material is unlikely to be in or below the soil. The ratings for sand and gravel do not consider the quality of the source material because quality depends on how the source material is to be used.

Roadfill

Roadfill consists of soil material that is excavated from its original position and used in road embankments elsewhere. The evaluations for roadfill are for low embankments that generally are less than 6 feet in height and are less exacting in design than high embankments such as those along superhighways. The rating is given for the whole soil, from the surface to a depth of about 5 feet, based on the assumption that soil horizons will be mixed in loading, dumping, and spreading. Soils are rated as to the amount of material available for excavation, the ease of excavation, and how well the material performs after it is in place.

Sand

Sand as a construction material is usually defined as particles ranging in size from 0.074 mm (sieve #200) to 4.75 mm (sieve #4) in diameter. Sand is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the sand for specific purposes is not evaluated. If the lowest layer of the soil contains sand, the soil is rated as a probable source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness.

Gravel

Gravel as a construction material is defined as particles ranging in size from 4.76 mm (sieve #4) to 76 mm (3 inches) in diameter. Gravel is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the gravel for specific purposes is not evaluated. If the lowest layer of the soil contains gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil

The term "topsoil" has several meanings. As used here, the term describes soil material used to cover an area so as to improve soil conditions for establishment and maintenance of adapted vegetation. Generally, the upper part of the soil, which is richest in organic matter, is most desirable; however, material excavated from deeper layers is also used. In this rating, the upper 40 inches of soil material is evaluated for use as topsoil. In the borrow area, the material below 40 inches is evaluated for its suitability for plant growth after the upper 40 inches is removed. The soil properties that are used to rate the soil as topsoil are those that affect plant growth, the ease of excavation, loading, and spreading, and those that affect the reclamation of the borrow area.

See the National Soil Survey Handbook, Part 620, for criteria used in rating specific uses

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|-----------------|------------------------------|------------------------------|-------------------------------|
| AdB ADAMS | Good. | Probable. | Improbable: too sandy. | Poor: too sandy. |
| AdC ADAMS | Good. | Probable. | Improbable: too sandy. | Poor: too sandy. |
| AdD ADAMS | Fair: slope. | Probable. | Improbable: too sandy. | Poor: slope, too sandy. |
| BaB BANGOR | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| BaC BANGOR | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| BaD BANGOR | Fair: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| BbB BANGOR | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| BbC BANGOR | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| BbD BANGOR | Fair: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|---|------------------------------|------------------------------|--|
| Be BEACHES | Poor: wetness. | Probable. | Improbable: too sandy. | Poor: area reclaim, excess salt, too |
| Bf BIDDEFORD | Poor: low strength, wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: too clayey, wetness. |
| BoB BOOTHBAY | Fair: low strength, wetness. | Improbable: excess fines. | Improbable: excess fines. | Fair: area reclaim. |
| BoC BOOTHBAY | Fair: low strength, wetness. | Improbable: excess fines. | Improbable: excess fines. | Fair: area reclaim, slope. |
| BoD BOOTHBAY | Fair: low strength, slope, wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope. |
| BoE3 BOOTHBAY | Poor: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope. |
| BpB BOOTHBAY | Fair: low strength, wetness. | Improbable: excess fines. | Improbable: excess fines. | Fair: area reclaim, small stones. |
| Bs BOROSAPRISTS | Poor: wetness. | Improbable: excess humus. | Improbable: excess humus. | Poor: excess humus, wetness. |
| BtB BRAYTON | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, small stones, |

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|---|-----------------|------------------------------|------------------------------|---|
| BvB BRAYTON | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, small stones, |
| BxB BRAYTON | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, small stones, |
| Ch CHARLES | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: wetness. |
| DxB DIXMONT | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| DxC DIXMONT | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| DyB DIXMONT | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| DyC DIXMONT | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| ElB ELDRIDGE | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: thin layer. |
| ElC ELDRIDGE | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: thin layer. |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|-------------------------------|------------------------------|------------------------------|---|
| HeB HERMON | Fair: large stones. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| HeC HERMON | Fair: large stones. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| HfC HERMON | Fair: large stones. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| HfD HERMON | Fair: large stones, slope. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| HgC HERMON | Fair: large stones. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| HgD HERMON | Fair: large stones, slope. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| Le LOVEWELL | Fair: wetness. | Probable. | Improbable: too sandy. | Fair: area reclaim, too sandy. |
| Lk LIMERICK | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: wetness. |
| RUMNEY | Poor: wetness. | Probable. | Probable. | Poor: area reclaim, small stones, |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|-----------------------------|---------------------------|---------------------------|---|
| LrB | | | | |
| LYMAN | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, small stones. |
| ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| LrC | | | | |
| LYMAN | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, small stones. |
| ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| LrE | | | | |
| LYMAN | Poor: depth to rock, slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope, small stones. |
| ROCK OUTCROP | Poor: depth to rock, slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope. |
| MaB | | | | |
| MADAWASKA | Fair: wetness. | Probable. | Improbable: too sandy. | Fair: small stones, thin layer. |
| MbB | | | | |
| MARLOW | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| MbC | | | | |
| MARLOW | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|-----------------|------------------------------|------------------------------|---|
| MbD MARLOW | Fair: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| MeB MARLOW | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| MeC MARLOW | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| MeD MARLOW | Fair: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| MeE MARLOW | Poor: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| MfC MARLOW | Good. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| MfE MARLOW | Poor: slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| MkB MASARDIS | Good. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| MkC MASARDIS | Good. | Probable. | Probable. | Poor: area reclaim, small stones, too |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|--------------------------------|-------------------------|------------------------------|------------------------------|---|
| MkE MASARDIS | Poor: slope. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| MrB MASARDIS VARIANT | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: small stones, too sandy. |
| MrC MASARDIS VARIANT | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: small stones, too sandy. |
| MsB MASARDIS VARIANT | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: small stones, too sandy. |
| ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| MsC MASARDIS VARIANT | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: small stones, too sandy. |
| ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| MwB MONARDA | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, small stones, |
| My MEDOMAK | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: wetness. |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|--------------------------|------------------------------|------------------------------|---|
| MyB MONARDA | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, small stones, |
| Na NAUMBURG | Poor: wetness. | Probable. | Improbable: too sandy. | Poor: too sandy, wetness. |
| PaB PERU | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| PaC PERU | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| PbB PERU | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| PbC PERU | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| PcB PERU | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| PcC PERU | Fair: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| PcD PERU | Fair: slope, wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |

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|---|--------------------------------|------------------------------|------------------------------|---|
| Pg PITS | Good. | Probable. | Probable. | Poor: area reclaim, small stones, too |
| Py PODUNK | Fair: wetness. | Probable. | Improbable: too sandy. | Fair: area reclaim, small stones, thin |
| Qu QUARRIES | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| Rc ROCK OUTCROP | Poor: depth to rock, slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope. |
| RmC ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| LYMAN | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, small stones. |
| RmE ROCK OUTCROP | Poor: depth to rock, slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope. |
| LYMAN | Poor: depth to rock, slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope, small stones. |
| Sa SACO | Poor: wetness. | Probable. | Probable. | Poor: area reclaim, wetness. |

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|--------------------------------|------------------------------------|------------------------------|------------------------------|---|
| Se | | | | |
| SEARSPORT | Poor: wetness. | Probable. | Probable. | Poor: area reclaim, too sandy, wetness. |
| Su | | | | |
| SULFAQUENTS | Poor: low strength, wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: excess salt, wetness. |
| SULFIHEMISTS | Poor: low strength, wetness. | Improbable: excess humus. | Improbable: excess humus. | Poor: excess humus, excess salt, wetness. |
| Sw | | | | |
| SWANVILLE | Poor: wetness. | Improbable: excess fines. | Improbable: excess fines. | Poor: wetness. |
| ThB | | | | |
| THORNDIKE | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: depth to rock, small stones. |
| WINNECOOK | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| ThC | | | | |
| THORNDIKE | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: depth to rock, small stones. |
| WINNECOOK | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| ThD | | | | |
| THORNDIKE | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: depth to rock, slope, small stones. |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|--------------------------------|--------------------------------|------------------------------|------------------------------|---|
| ThD WINNECOOK | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| TkB THORNDIKE | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: depth to rock, small stones. |
| ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| TkC THORNDIKE | Poor: depth to rock. | Improbable: thin layer. | Improbable: thin layer. | Poor: depth to rock, small stones. |
| ROCK OUTCROP | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock. |
| TkE THORNDIKE | Poor: depth to rock, slope. | Improbable: thin layer. | Improbable: thin layer. | Poor: depth to rock, slope, small stones. |
| ROCK OUTCROP | Poor: depth to rock, slope. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope. |
| TrB TUNBRIDGE | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| LYMAN | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, depth to rock, small |

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| Soil name and map symbol | Roadfill | Sand | Gravel | Topsoil |
|---|--------------------------|------------------------------|------------------------------|---|
| TrC | | | | |
| TUNBRIDGE | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: small stones. |
| LYMAN | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: area reclaim, depth to rock, small |
| TrD | | | | |
| TUNBRIDGE | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: slope, small stones. |
| LYMAN | Poor: depth to rock. | Improbable: excess fines. | Improbable: excess fines. | Poor: depth to rock, slope, small stones. |
| Ud | | | | |
| UDORTHENTS | Limitation: variable. | Limitation: variable. | Limitation: variable. | Limitation: variable. |
| URBANLAND | Limitation: variable. | Limitation: variable. | Limitation: variable. | Limitation: variable. |